



# C Programming Standard Library

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## Standard Headers and Functions

### Key Features

- Collection of built-in functions and macros that:
  - Provide essential functionality
  - Ensure portability and efficiency across different systems
  - Include input/output (I/O) operations, string manipulation, memory management, mathematical calculations, error handling, and more
- By using these standardized functions, C programs can be written in a way that works consistently on any compliant compiler and operating system (OS)
- The library has evolved alongside the C language, first formalized in ANSI C (C89) and later expanded in C99, C11, and C23 to introduce features like complex numbers, threading, and atomic operations
- Despite advancements, the core functions remain efficient and minimalistic, aligning with C's philosophy of providing low-level control while avoiding unnecessary overhead
- C has undergone several standard revisions, improving functionality, portability, and efficiency while maintaining backward compatibility

### Header Files

**C89/C90 (ANSI C, 1988/1990)** First standardized version defining the core language and standard library:  
 assert.h, ctype.h, errno.h, float.h, limits.h, locale.h, math.h, setjmp.h, signal.h, stdarg.h, stddef.h, stdio.h, stdlib.h, string.h, time.h

**C95 (ISO Amendment, 1995)** Introduced support for wide characters and multibyte characters, enhancing C's ability to handle internationalization and localization:  
 wchar.h, wctype.h

**C99 (1999)** Introduced features like inline functions, variable-length arrays (VLAs), complex numbers, and improved floating-point support:  
 complex.h, fenv.h, inttypes.h, int64\_t.h, stdint.h, tgmath.h

**C11 (2011)** Added multithreading support, atomic operations, and hyper-specific math functions:  
 stdalign.h, stdatomic.h, stdbool.h, stdnoreturn.h, threads.h, wchar.h

**C17/C18 (2017/2018)** Minor revisions of C11, mainly fixing defects and improving compiler consistency, with no new header files

**C23 (2023)** The latest revision, introducing checked integer arithmetic, new attributes, and refinements to existing functionality:  
 stdfloat.h, stdint.h, stdintet.h

### Including Libraries

- Headers are included using the #include directive
  - These headers provide function prototypes, macros, and type definitions needed for various operations
  - To use a library, simply include its corresponding header at the beginning of your program:
- ```
#include <stdio.h> // Provides I/O
// Functions like printf()
#include <stdlib.h> // Includes memory
// Management and process control functions
```
- Standard headers are enclosed in angle brackets (<>), which instruct the compiler to search for them in the system's default include directories
  - Unlike user-defined headers (which use #include "file.h"), these do not require explicit file paths
  - The C standard library (libc) ensures portability, so a program using these headers will compile and behave consistently across compliant compilers and OS
  - Including only the necessary headers keeps compilation efficient and avoids unnecessary dependencies

### assert.h: Debugging with Runtime Assertions

**assert(expression):** runtime assertion check  
**static\_assert(expression, message):** compile-time assertion check

- C doesn't have built-in exception-handling mechanisms like try ... catch found in other languages
- Instead, error handling in C is typically done through return codes, errors, or manual checks
- The `assert.h` header provides the `assert()` macro
- Acts as a lightweight debugging tool to catch logic errors at runtime
- If the condition inside `assert()` evaluates to false, the program prints an error message and terminates

- Useful for detecting invalid assumptions, such as function preconditions or impossible states
  - Assertions should be used during development but can be disabled in production for performance reasons
  - By defining `NDEBUG` before including `assert.h` (#define NDEBUG), all assertions are disabled, preventing any runtime overhead
  - You can also disable assertions at compile time with `-DNDEBUG`
  - With `NDEBUG` defined, `assert()` has no effect, and the program continues execution even if the condition is false
- EX: Input validation, checking for division by zero**
- If assertion fails, output will be similar to: **Assertion failed: (b != 0), function divide, file test.c, line 6**

```
#include <stdio.h>
// Needed for printf()
#include <assert.h>

int divide(int a, int b) {
  assert(b != 0);
  // Ensure divisor is not zero
  return a / b;
}

int main() {
  int x = 10, y = 2;
  printf("Result: %d\n", divide(x, y));
  y = 0;
  printf("Result: %d\n", divide(x, y));
  // This will trigger assert failure
  return 0;
}
```

### complex.h: Complex Number Arithmetic

**i:** represents the imaginary unit ( $\sqrt{-1}$ )  
**cabs(z):** returns the magnitude (absolute value) of a complex number  
**carg(z):** returns the phase angle (argument) of a complex number  
**cimag(z):** extracts the imaginary part of a complex number  
**creal(z):** extracts the real part of a complex number  
**exp(z):** computes  $e^z$   
**exp2(z):** computes the natural logarithm of a complex number  
**exp2f(z):** computes  $e$  raised to the power  $y$   
**exp2l(z):** computes the square root of a complex number  
**expf(z):** computes the cosine of a complex number  
**expm1(z):** computes the cosine of a (float variant)  
**expm1f(z):** computes the cosine of a (long double variant)  
**expm1l(z):** computes the sine of a complex number  
**expm1f(z):** computes the sine of a (float variant)

**csin(z):** computes the sine of a (long double variant)  
**ctan(z):** computes the tangent of a complex number  
**csinh(z):** computes the hyperbolic cosine of a complex number  
**csinhf(z):** computes the hyperbolic sine of a complex number  
**csinhl(z):** computes the hyperbolic tangent of a complex number

- The `complex.h` header:
  - Introduces support for complex number arithmetic
  - Defines the complex type
  - Provides mathematical operations for working with complex numbers
- This library is essential for mathematical computing, engineering, and scientific applications

**EX: Demonstrates addition, magnitude calculation (cabs()), and computing the phase angle (carg())**

- The predefined constant `I` represents the imaginary unit, simplifying notation

• Output: a complex number, its magnitude (distance from the origin), and its phase angle (direction in a 2D plane)

```
#include <stdio.h>
#include <complex.h>

int main() {
  double complex z1 = 1.0 + 2.0 * I;
  double complex z2 = 3.0 - 4.0 * I;
  double complex sum = z1 + z2;

  printf("z1 = %f + %f*I\n", creal(z1), cimag(z1));
  printf("z2 = %f + %f*I\n", creal(z2), cimag(z2));
  printf("sum = %f + %f*I\n", creal(sum), cimag(sum));
  return 0;
}
```

### ctype.h: Character Classification & Conversion

**isalnum(c):** checks if c is a letter or digit  
**isalpha(c):** checks if c is a letter  
**isascii(c):** checks if c is a valid ASCII character  
**isblank(c):** checks if c is a space or tab  
**iscntrl(c):** checks if c is a control character  
**isdigit(c):** checks if c is a digit (0-9)  
**isgraph(c):** checks if c is printable (including space)  
**islower(c):** checks if c is a lowercase letter  
**isprint(c):** checks if c is printable (including space)  
**ispunct(c):** checks if c is a punctuation character  
**isspace(c):** checks if c is a whitespace character  
**isupper(c):** checks if c is an uppercase letter  
**isxdigit(c):** checks if c is a hexadecimal digit (0-9, A-F/a-f)  
**toupper(c):** converts uppercase c to lowercase

**tolower(c):** converts lowercase c to uppercase

- The `ctype.h` header:
  - Provides functions for character classification and conversion
  - Helps to determine whether a character is a letter, digit, whitespace, or punctuation
  - Allows for case conversion
  - Takes `int` arguments because characters are stored as integer ASCII values and return a nonzero value if the condition is true
- Functions like `isalpha()` may be faster than manual checks, as they are often implemented using lookup tables
- Especially useful when processing user input, validating text, or implementing parsers, as in the following example

**EX: Output: Letter, Not a digit, a in lowercase**

```
#include <stdio.h>
#include <ctype.h>

int main() {
  char ch = 'A';
  if (isalpha(ch))
    printf("Letter, ");
  if (isdigit(ch))
    printf("Digit, ");
  else
    printf("Not a digit, ");
  printf("%c is lowercase\n", tolower(ch));
  return 0;
}
```

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